Table B-4. Sediment toxicity screening values for aquatic life.

Chemical	Ingersoll et al. (1996) ERL (ug/g - dry)	Ingersoll et al. (1996) ERM (ug/g - dry)	Ingersoll et al. (1996) TEL (ug/g - dry)	Ingersoll et al. (1996) PEL (ug/g - dry)	Environment Canada (1995) TEL (ug/g - dry)	Environment Canada (1995) PEL (ug/g - dry)	Ontario (1993) LEL (ug/g - dry)	Ontario (1993) SEL[1] (ug/g - dry)	USEPA (1993a-e) SQC[1] (ug/g - dry)	Di Toro et al (2000) C_{SQG} (mg/Kg OC)
Metals										
Aluminum	---	58,000	---	---	---	---	---	---	---	-
Antimony	---	---	---	---	---	---	---	---		-
Arsenic	13	50	11	48	5.9	17	6	33	---	-
Barium	---	---	---	---	---	---	---	---	---	-
Beryllium	---	---	---	---	---	---	---	---	---	-
Cadmium	0.7	3.9	0.58	3.2	0.596	3.53	0.6	10	---	-
Chromium	39	270	36	120	37.3	90	26	110	---	-
Cobalt	---	---	---	---	---	---	---	---		-
Copper	41	190	28	100	35.7	197	16	110	---	-
Iron	200,000	280,000	190,000	250,000	---	---	20,000	40,000	---	-
Lead	55	99	37	82	35	91.3	31	250	---	-
Manganese	730	1,700	630	1,200	---	---	460	1,100	---	-
Mercury	---	---	---	---	0.174	0.486	0.2	2	---	-
Nickel	24	45	20	33	18	35.9	16	75	---	-
Selenium	---	---	---	---	---	---	---	---	---	-
Silver	---	---	---	---	---	---	---	---	---	-
Thallium	---	---	---	---	---	---	---	---		-
Vanadium	---	---	---	---	---	---	---	---		-
Zinc	110	550	98	540	123	315	120	820	---	-
Conventionals										
Cyanide	---	---	---	---	---	---	---	---		-
PAHs										
Anthracene	0.01	0.14	0.01	0.17	---	---	0.22	370	---	1005
Benzo[a]anthracene	0.019	0.3	0.016	0.28	0.0317	0.385	0.32	1480	---	1422
Benzo[a]pyrene	0.084	0.47	0.032	0.32	0.0319	0.782	0.37	1440	---	1633
Benzo[b]fluoranthene	---	---	---	---	---	---	---	---	---	1656
Benzo[g,h,i]perylene	0.013	0.28	0.016	0.25	---	---	0.17	0.32		1852
Benzo[k]fluoranthene	---	---	---	---	---	---	0.24	1.34		1659
Chrysene	0.03	0.5	0.027	0.41	0.0571	0.862	0.34	460	---	1427
Dibenz[a,h]anthracene	0.01	---	0.01	---	---	---	0.06	130	---	1899
Fluoranthene	0.033	0.18	0.031	0.32	0.111	2.355	0.75	1020	1020	1196
Indeno[1,2,3-c,d]pyrene	0.03	0.25	0.017	0.24	---	---	0.2	320	---	1887
Phenanthrene	0.027	0.35	0.019	0.41	0.0419	0.515	0.56	950	180	1008
Pyrene	0.04	0.35	0.044	0.49	0.053	0.875	0.49	850	---	1180

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Chemical	Ingersoll et al. (1996) ERL (ug/g - dry)	Ingersoll et al. (1996) ERM (ug/g - dry)	Ingersoll et al. (1996) TEL (ug/g - dry)	Ingersoll et al. (1996) PEL (ug/g - dry)	Environment Canada (1995) TEL (ug/g - dry)	Environment Canada (1995) PEL (ug/g - dry)	Ontario (1993) LEL (ug/g - dry)	Ontario (1993) SEL[1] (ug/g - dry)	USEPA (1993a-e) SQC[1] (ug/g - dry)	Di Toro et al (2000) C_{SQG} (mg/Kg OC)
PCBs										
Aroclor 1016	---	---	---	---	---	---	0.007	53	---	-
Aroclor 1242	---	---	---	---	---	---	---	---	---	-
Aroclor 1254	---	---	---	---	---	---	0.06	34	---	-
Aroclor 1260	---	---	---	---	---	---	0.005	24	---	-
Total PCBs	0.05	0.73	0.032	0.24	0.0341	0.277	0.07	530	---	-
Pesticides										
4,4'-DDD	---	---	---	---	0.00354	0.00851	0.008	6		-
4,4'-DDE	---	---	---	---	0.00142	0.00675	0.005	19	---	-
4,4'-DDT	---	---	---	---	0.00698	4.45	0.007	12	---	-
Aldrin	---	---	---	---	---	---	0.002	8	---	-
alpha-Chlordane	---	---	---	---	---	---	---	---		-
gamma-Chlordane	---	---	---	---	---	---	---	---		-
delta-BHC	---	---	---	---	---	---	---	---		-
Dieldrin	---	---	---	---	0.00285	0.00667	0.002	91	11	-
Endosulfan	---	---	---	---	---	---	---	---		-
Endrin Ketone	---	---	---	---	---	---	---	---		-
Heptachlor	---	---	---	---	---	---	---	---	---	-
Heptachlor epoxide	---	---	---	---	0.0006	0.00274	0.005	5	---	-
Semivolatile Organics										
2,4,6-Tribromophenol	---	---	---	---	---	---	---	---		-
2-Fluorobiphenyl	---	---	---	---	---	---	---	---		-
2-Fluorophenol	---	---	---	---	---	---	---	---		-
bis(2-Ethylhexyl)phthalate	---	---	---	---	---	---	---	---		-
Di-n-octylphthalate	---	---	---	---	---	---	---	---		-

[1] Values for PCBs, organochlorines, and PAHs are normalized for organic carbon.
ERL = Effects range-low
ERM = Effects range-median
TEL = Threshold effect level
PEL = Probable effect level
LEL = Lowest effect level
SEL = Severe effect level
SQC = Sediment quality criteria